

FIG. 1

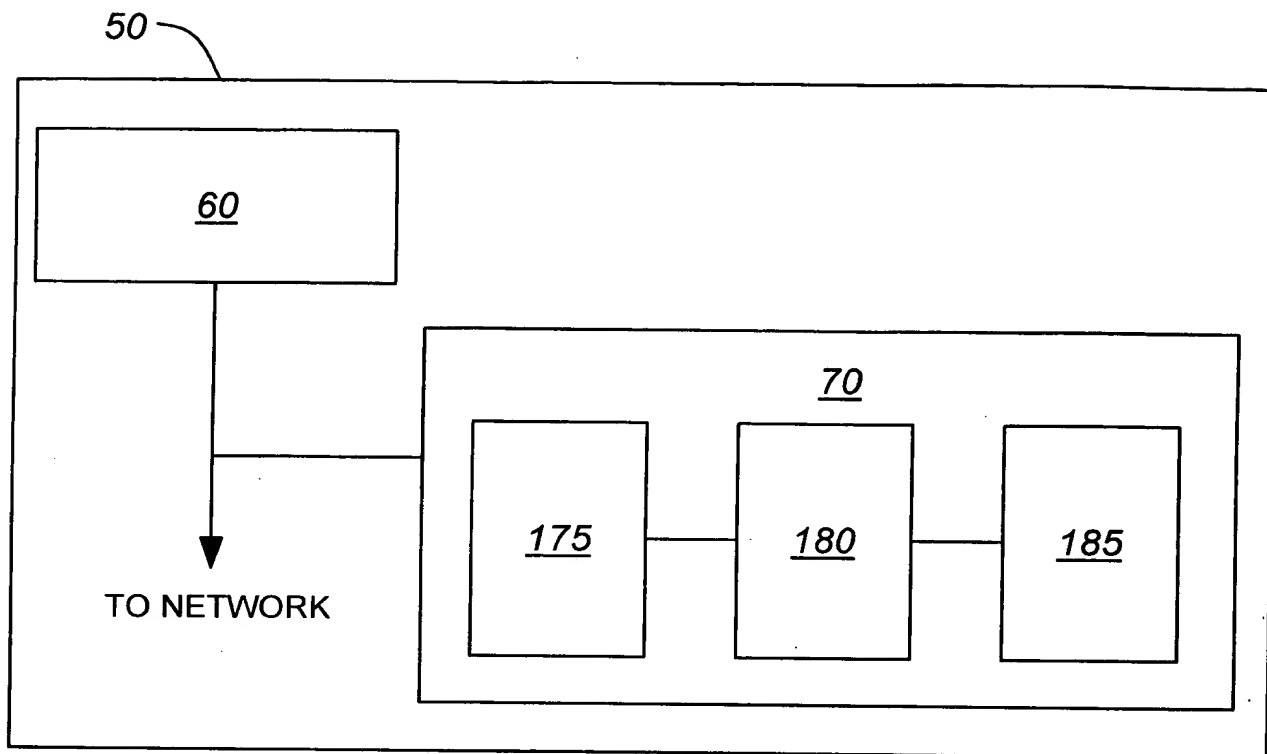


FIG. 2

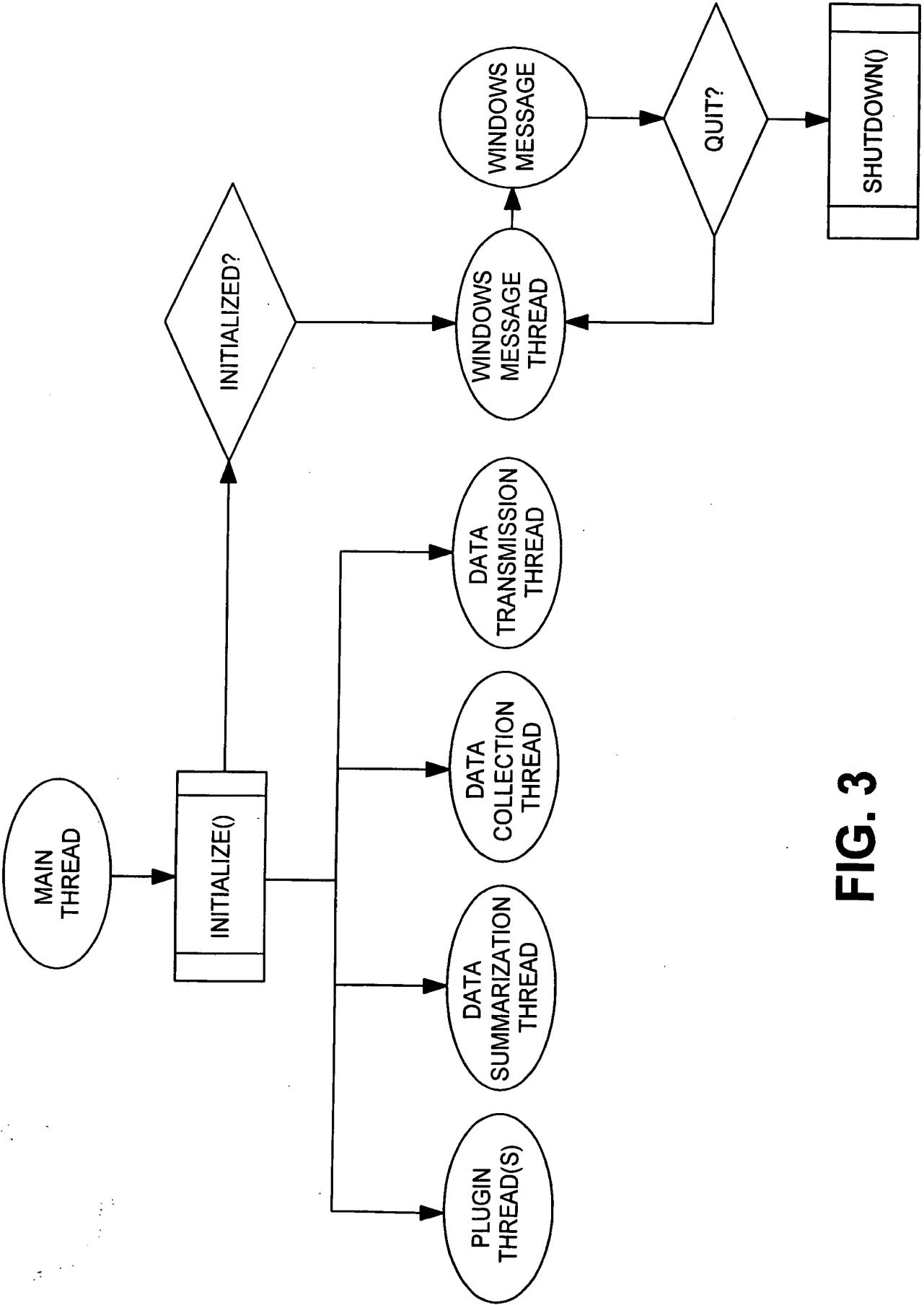


FIG. 3

Packet Size: 1200
pid: 340
threadId: 368
timeStamp: 952372115
state: 2
clientCookie.versionMajor: 1
clientCookie.clientCookie.versionMinor: 2
clientCookie.source: webHancer
clientCookie.clientId: 3439438016167880896952357565
clientPostCode:
clientIpAddr: 167880896
dnsLookupTime: 0
connectionDelay: 10
clientMaxAccessSpeed: 818000
userAgent: Mozilla/4.0(compatible;MSIE 5.0;Windows NT;DigExt)
usingProxy: 1
host: www.yahoo.com
hostIpAddr: 3439438016
httpMethod: 0
target:/
referrer:
httpResponse: 200
numFramesetPages: 0
numPageGets: 4
numGetRequestsSent: 4
numGetResponsesReceived: 4
numOkResponses: 4
numOkCachedResponses: 3
numMovedPermanentlyResponses: 0
numNotModifiedResponses: 0
numNotFoundResponses: 0
numSuccessResponses: 4
numClientErrorResponses: 0
numServerErrorResponses: 0
numBytesSent: 1160
numBytesReceived: 20070
numApplicationBytes: 0
numImageBytes: 7413
numTextHtmlBytes: 11768
numTextPlainBytes: 0
numTextXmlBytes: 0
numTextOtherBytes: 0

FIG. 5A

numAudioBytes: 0
numVideoBytes: 0
numCachedBytes: 7413
pageLoadTime: 932
totalTransferTime: 1352
totalNetworkRTT: 10
totalConnectTime: 10
totalDNSLookupTime: 0
applicationTransferTime: 0
audioTransferTime: 0
imageTransferTime: 420
textHtmlTransferTime: 932
textPlainTransferTime: 0
textXmlTransferTime: 0
textOtherTransferTime: 0
videoTransferTime: 0
contentThroughput: 14844.7
applicationThroughput: 0
audioThroughput: 0
imageThroughput: 17650
textHtmlThroughput: 12626.6
textPlainThroughput: 0
textXmlThroughput: 0
textOtherThroughput: 0
videoThroughput: 0

FIG. 5B

FIG. 6

350

SPEED STORAGE SET									
15 MIN 28 K	HOURLY 28 K	HOURLY 28 K B	DAILY 28 K	15 MIN 28 K B	WEEKLY 28 K	HOURLY 28 K B	MONTHLY 28 K B	DAILY 28 K B	MONTHLY 28 K B
DAILY 28 K B	WEEKLY 28 K B	HOURLY 56 K	DAILY 56 K	15 MIN 56 K B	WEEKLY 56 K	HOURLY 56 K B	MONTHLY 56 K	DAILY 56 K B	MONTHLY 56 K B
15 MIN 128 K	HOURLY 128 K	HOURLY 128 K B	DAILY 128 K	15 MIN 128 K B	WEEKLY 128 K	HOURLY 128 K B	MONTHLY 128 K B	DAILY 128 K	MONTHLY 128 K B
DAILY 128 K B	WEEKLY 128 K B	HOURLY <384 K	DAILY <384 K	15 MIN <384 K B	WEEKLY <384 K	HOURLY <384 K B	MONTHLY <384 K B	DAILY <384 K	MONTHLY <384 K B
15 MIN >384 K	HOURLY >384 K	HOURLY >384 K B	DAILY >384 K	15 MIN >384 K B	WEEKLY >384 K	HOURLY >384 K B	MONTHLY >384 K B	DAILY >384 K	MONTHLY >384 K B
DAILY >384 K B	WEEKLY >384 K B	HOURLY >384 K	DAILY >384 K	15 MIN >384 K B	WEEKLY >384 K	HOURLY >384 K B	MONTHLY >384 K B	DAILY >384 K	MONTHLY >384 K B

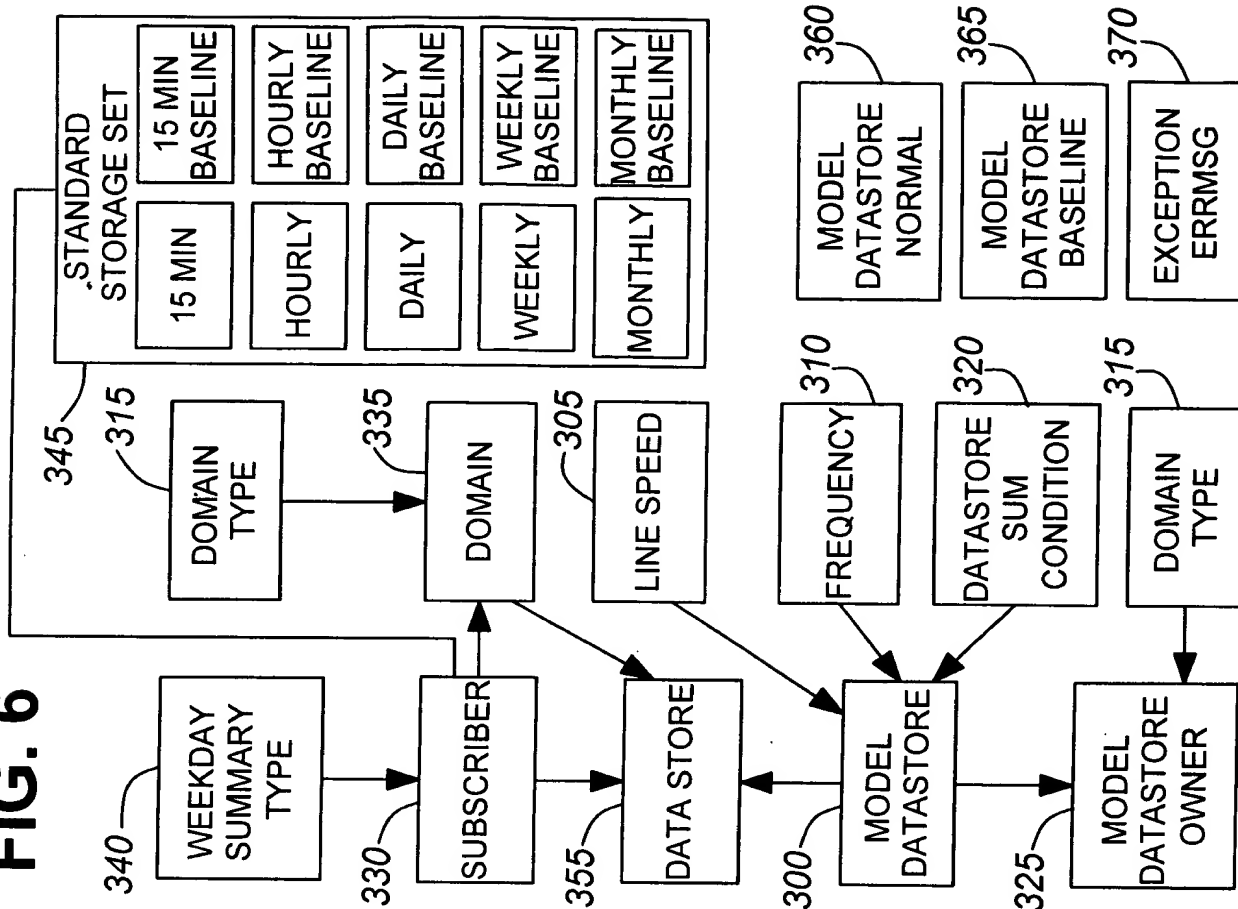
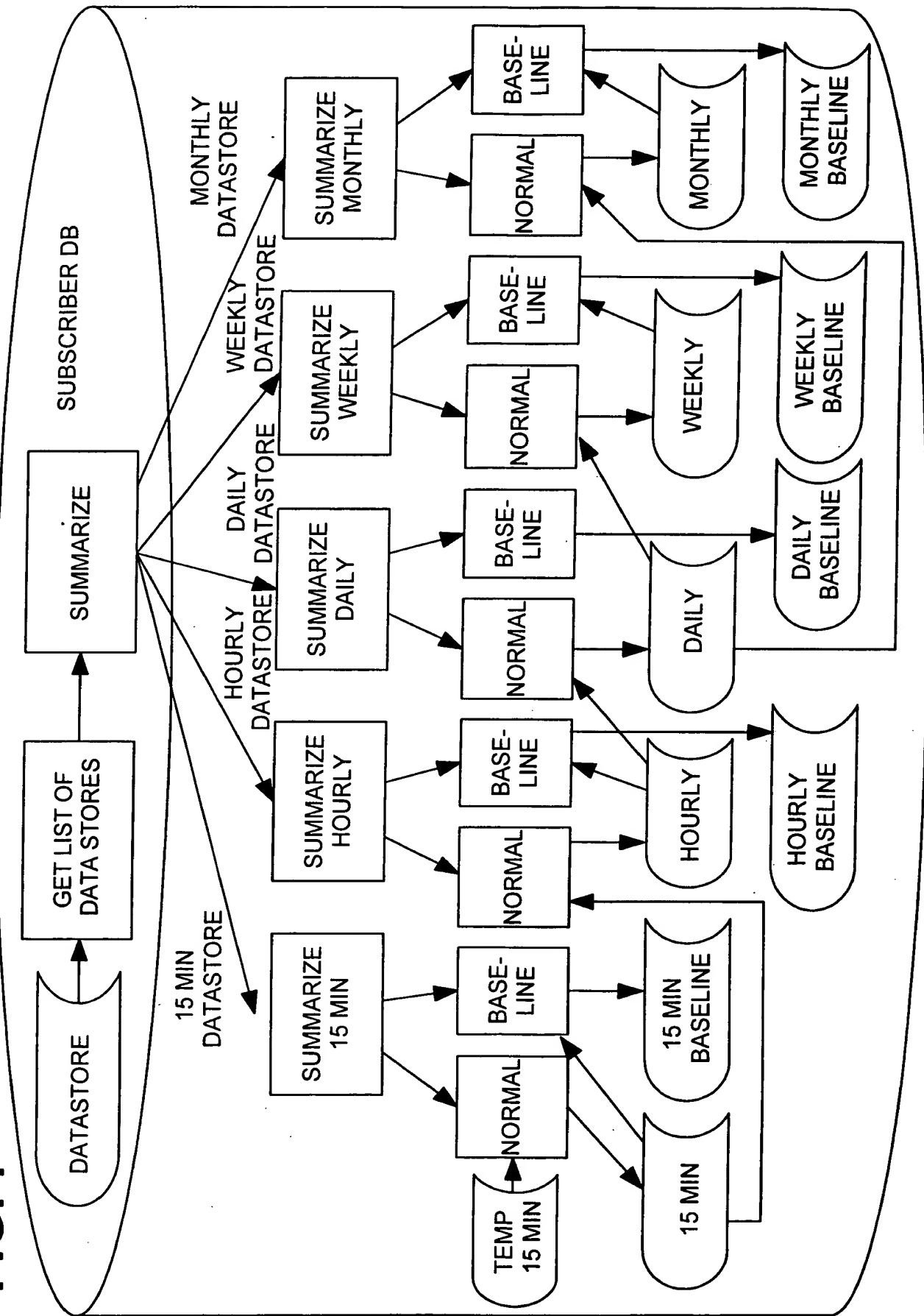
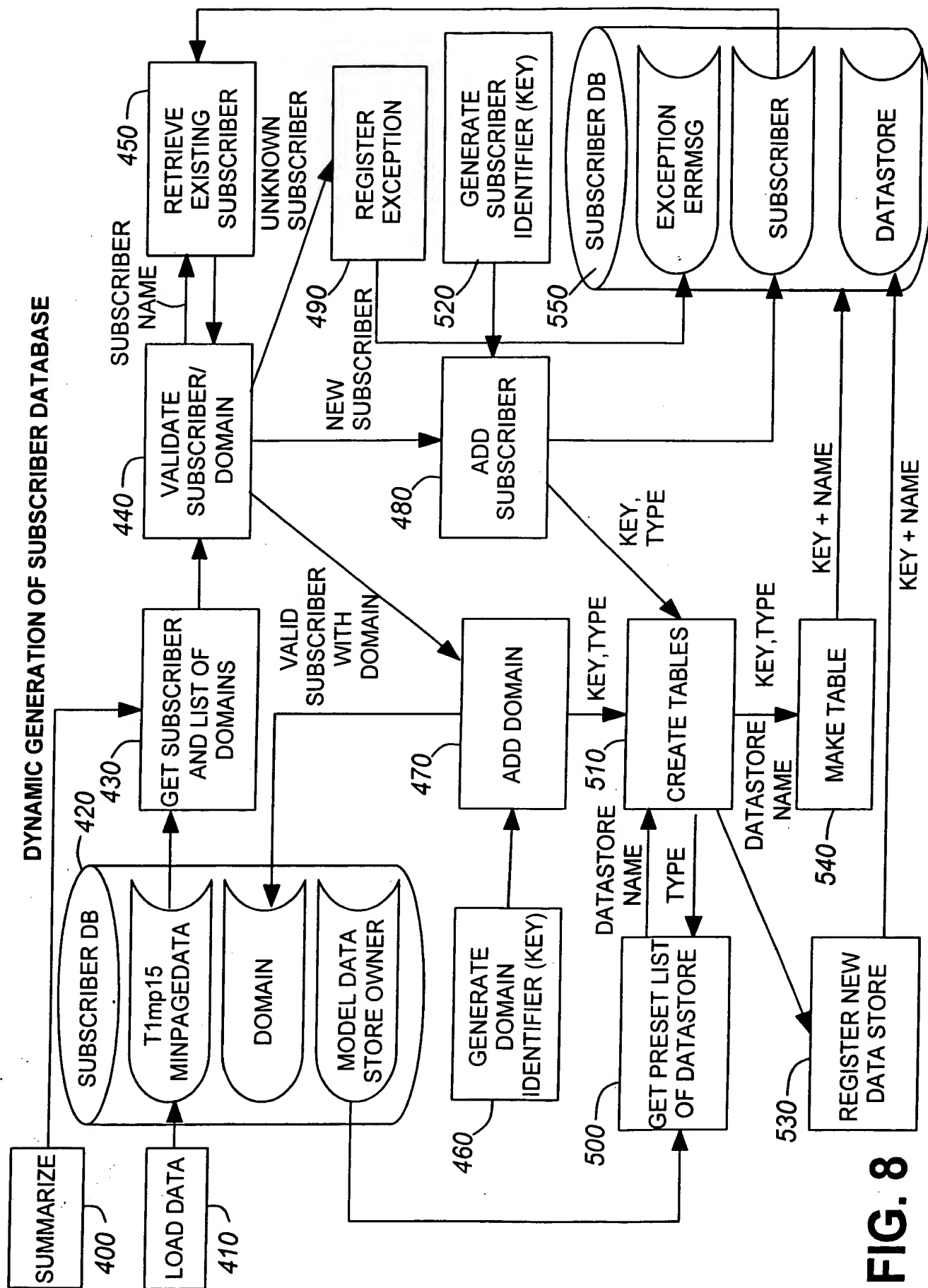


FIG. 7

DATABASE SUMMARIZATION PROCESS





DATA ACCESS PATH-SECURITY

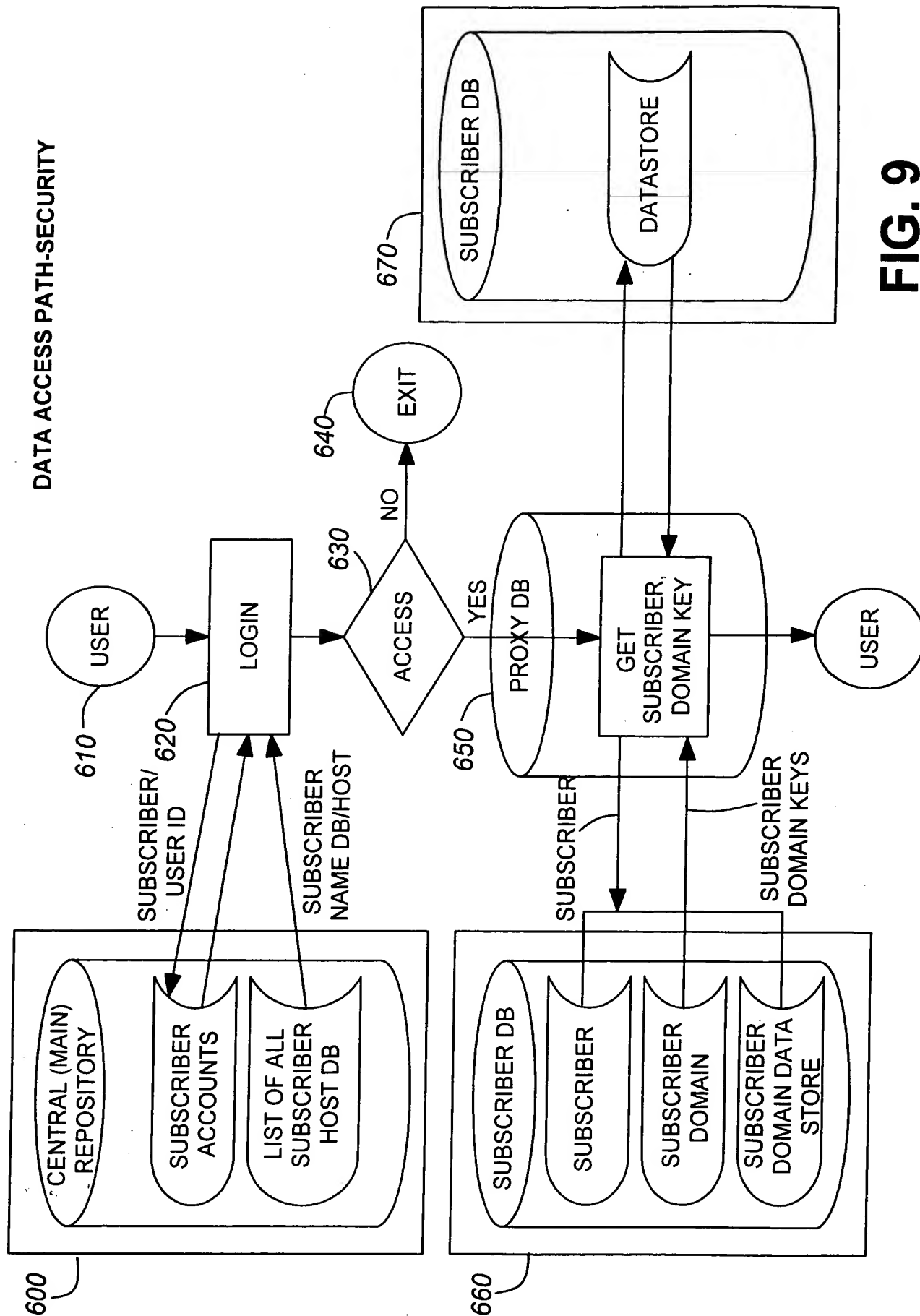


FIG. 9